

CLAIM

1. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information, a network control system comprising:
  - 5 a controller having a user interface; and
  - a device acting as an object to be controlled, with at least said controller and device included in said two or more of equipment, wherein
  - 10 said device has at least one or more display components, each of which configures an operation picture for operating said device, and also has a control code corresponding to said display component;
  - said controller reads said display component and control code from said device and displays said read display component on a display screen;
  - 15 said controller transmits the control code corresponding to said display component and also operation information of said user to said device when the user operates said display component on said display screen; and
  - said device executes a function indicated by said display component according to said transmitted control code and user's operation information.
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2. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information, a network control system comprising:
  - 25 a controller having a user interface; and
  - a device acting as an object to be controlled, with at least said controller and device included in said two or more of equipment, wherein
  - said device has at least one or more display components, each of which configures an operation picture for operating said device, and also has a plurality of control codes corresponding to said display component;
  - 30 said controller reads said display component and control code from said

device and displays said read display component on a display screen; said controller transmits a few control codes out of said plurality of control codes corresponding to said display component and also operation information of said user to said device when the user operates said display component on said display screen; and said device executes a function indicated by said display component according to said transmitted control code and user's operation information.

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3. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, 10 audio or information, a network control system comprising: a controller having a user interface; and a device acting as an object to be controlled, with at least said controller and device included in said two or more of equipment, wherein said device has at least one or more display components, each of which 15 configures an operation picture for operating said device, and also has a plurality of control codes corresponding to said display component; said controller reads said display component and control code from said device and displays said read display component on a display screen; said controller transmits a few control codes out of said plurality of control 20 codes corresponding to said display component to said device when the user operates said display component on said display screen; and said device executes a function indicated by said display component according to said transmitted control code.

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4. The network control system according to Claim 1, Claim 2 or Claim 3, wherein a control code includes a code giving a directive to a controller on the operation thereof.

5. The network control system according to Claim 1, Claim 2 or Claim 3, 30 wherein a display component includes at least one or more of still picture data and/or text data.

6. The network control system according to Claim 1, Claim 2 or Claim 3,

wherein a control code is an identification data of a display component.

7. The network control system according to Claim 1, Claim 2 or Claim 3,  
wherein a display component is a program including a display element.

8. The network control system according to Claim 1, Claim 2 or Claim 3,  
5 wherein a control code is a program ID of a program.

9. The network control system according to Claim 1, Claim 2 or Claim 3,  
wherein in case a display component undergoes an alteration a device  
transmits information on said altered display component to a controller.

10. In an AVC system formed by connecting via a transmission line at least  
10 two or more of equipment that handles any one or more of data on video,  
audio or information with at least a controller and a device included in  
said two or more of equipment, a device comprising:  
at least one or more display components to configure an operation picture  
for operating the device; and

15 a control code corresponding to said display component, wherein said  
device executes the function indicated by said display component  
according to said control code received via said transmission line and  
operation information of the user.

11. In an AVC system formed by connecting via a transmission line at least  
20 two or more of equipment that handles any one or more of data on video,  
audio or information with at least a controller and a device included in  
said two or more of equipment, a device comprising:  
at least one or more display components to configure an operation picture  
for operating the device; and

25 a plurality of control codes corresponding to said display component,  
wherein said device receives a few control codes out of said plurality of  
control codes and operation information of the user via said transmission  
line and executes the function indicated by said display component.

12. In an AVC system formed by connecting via a transmission line at least  
30 two or more of equipment that handles any one or more of data on video,

audio or information with at least a controller and a device included in said two or more of equipment, a device comprising:  
at least one or more display components to configure an operation picture for operating the device; and

5 a plurality of control codes corresponding to said display component, wherein said device receives a few control codes out of said plurality of control codes via said transmission line and executes the function indicated by said display component.

13. In an AVC system formed by connecting via a transmission line at least  
10 two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a controller characterized by:  
reading a display component to configure an operation picture of a device and a control code corresponding to said display component from said  
15 device provided with a user interface and acting as an object to be controlled;  
displaying said display component on a display screen; and  
transmitting a control code corresponding to said display component and  
operation information of the user when said user operates said display  
20 component on said display screen.

14. In an AVC system formed by connecting via a transmission line at least  
two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a controller characterized by:  
25 reading at least one or more display components to configure an operation screen of a device and a plurality of control codes corresponding to said display component from said device provided with a user interface and acting as an object to be controlled;  
displaying said display component on a display screen; and  
30 transmitting a few control codes out of said plurality of control codes

corresponding to said display component and operation information of the user when said user operates said display component on said display screen.

15. In an AVC system formed by connecting via a transmission line at least  
5 two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a controller characterized by:  
reading at least one or more display components to configure an operation screen of a device and a plurality of control codes corresponding to said  
10 display component from said device provided with a user interface and acting as an object to be controlled;  
displaying said display component on a display screen; and  
transmitting a few control codes out of said plurality of control codes corresponding to said display component when the user operates said  
15 display component on said display screen.

16. In an AVC system formed by connecting via a transmission line at least  
two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a device characterized by:  
20 having an identification information memory area to store identifying information, whereby said device is identified by the user;  
receiving data of a display component, whereby the user identifies designated equipment; and  
storing data of said display component as said identifying information in  
25 said identification information memory area.

17. In an AVC system formed by connecting via a transmission line at least  
two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a device characterized by:  
30 having an identification information memory area to store display

compo-

5 nents of a plurality of kinds, whereby the device is to be identified by the user, and a flag to identify said display component of a plurality of kinds selected by the user;

5 receiving the flag of said display component selected by the user; and storing the flag of said display component in said identifying information memory area.

10 18. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a network control system comprising a controller with a user interface and a device acting as an object to be controlled, at least both of which are included in said two or more of equipment, wherein:

15 said device has a plurality of operation picture data for controlling the device; and said controller reads said operation picture data from said device and displays an operation picture prepared by using said operation picture data by switching between operation pictures according to the operation 20 of the user.

19. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a controller characterized by:

25 reading a plurality of operation picture data from the device provided with a user interface and acting as an object to be controlled; producing a selection picture for selecting said plurality of operation screens from said operation picture data; and displaying said selection picture.

30 20. In an AVC system formed by connecting via a transmission line at least

two or more of equipment that handles any one or more of data on video, audio or information, a network control system comprising:

10 a controller with a user interface; and

15 a device acting as an object to be controlled, with at least said controller and device included in said two or more of equipment, wherein:

20 said device has a host memory area to store host's identification data at the present time; and

25 said controller writes said controller's identification data in said host memory area at the time of controlling said device and gains the right to use.

30 21. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information, a network control system comprising:

a controller with a user interface; and

a device acting as an object to be controlled, with at least said controller and device included in said two or more of equipment, wherein:

35 said device has a host memory area to store host's identification data at the present time;

40 said controller transmits said controller's identification data to said device at the time of controlling said device; and

45 said device writes said transmitted identification data in said host memory area, thereby providing said controller with the right to use.

50 22. The network control system according to Claim 20, wherein the controller writes said controller's identification data in the host memory area at the time of controlling said device and also writes a flag indicating priorities of the right to use therein to gain the right to use.

55 23. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a device characterized by:

having a host memory area to store host's identification data at the present time; and

providing only a controller of the identification data, which is written in said host memory area, with the right to use.

5      24. The device according to Claim 23, wherein whether the controller of the identification data stored in the host memory area exists on the network or not is confirmed in a predetermined period after the time when the control code was accepted most recently.

10     25. The device according to Claim 23, wherein the contents of the host memory area are made invalid in a predetermined period after the control code was accepted most recently.

15     26. The device according to Claim 23, wherein the contents of the host memory area are made invalid in case where nothing is written in said host memory area from the controller in a predetermined period after the time when a status alteration in the transmission line occurred

20     27. In an AVC system formed by connecting via a transmission line at least two or more of equipment that handles any one or more of data on video, audio or information with at least a controller and a device included in said two or more of equipment, a controller characterized by writing an identification data of said controller in a host memory area of said device to gain the right to use at the time of controlling said device.

25     28. The controller according to Claim 27, wherein in the case of continuing the right to use the device a controller's own identification data is rewritten in the host memory area of the device in a predetermined period after the time when a control code was sent to the device most recently.

30     29. The controller according to Claim 27, wherein in the case of continuing the right to use the device a controller's own identification data is rewritten in the host memory area of the device in a predetermined period after the time when a status alteration in the transmission line occurred.